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Register Number
Name of the Candidate:

M.Sc. DEGREE EXAMINATION, May 2015

(ELECTRONIC SCIENCE)

(SECOND YEAR)

640: DIGITAL COMMUNICATION AND DIGITAL SIGNAL PROCESSING

Time: Three hours

Maximum: 100 marks

(5×4=20)

SECTION-A

Answer any FIVE questions

1. State the sampling theorem and its relevance to communication.
2. Mention the advantage of digital over analog signal processing.
3. Explain message switching.
4. Explain pure ALOHA and slotted ALOHA.
5. What is up sampling? Mention its uses.
6. Discuss the basic concept of signal processing.
7. State the importance of impulse and step response.
8. What are the FIR and IIR systems?

SECTION-B

Answer any FIVE questions

(5×16=80)

9. Explain in detail the generation and demodulation of PAM.
10. Discuss in detail the binary shift keying.
11. Explain the packet switching in networks.
12. Explain the satellite communication.
13. Explain the basic concept in digital signal processing.
14. Mention the advantage of FIR over filter. Discuss the basic structure of FIR filter.
15. Discuss in detail the digital FM stereo generation.
16. Mention the properties of Z-transforms.
